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AMSAT NEWS SERVICE
ANS-217

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

In this edition:

* AMSAT-DL Announces IARU coordinated frequencies for P4-A, Es'hail-2
* Launch Announced For Es’hail-2 Carrying Ham Radio Transponders
* BIRDS-2 deploy from ISS on 10th Aug
* VUCC Awards-Endorsements for July 2018
* Return of ARISS Packet Radio
* Students Learn About Amateur Satellites At College Workshops
* AMSAT Board of Director Elections Corrected Ballots Mailed
* AMSAT Member Ruth Willet, KM4LAO Receives 2018 ARRL Hiram Percy Maxim Memorial Award
* Call for Papers Microwave Update 2018
* 2018 36th AMSAT Symposium & Banquet Registration Now on AMSAT Store
* Upcoming Satellite Operations
* ARISS News
* Shorts From All Over

SB SAT @ AMSAT $ANS-217.01
ANS-217 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 217.01
>From AMSAT HQ KENSINGTON, MD.
August 5, 2018
To All RADIO AMATEURS
BID: $ANS-217.01

## AMSAT-DL Announces IARU coordinated frequencies for P4-A, Es'hail-2

Es'hail-2 is a commercial geostationary broadcasting satellite which will also provide the first amateur radio Phase 4 transponders. The satellite will be positioned at 26 degrees east.

Es'hail-2 will carry two transponders operating in the 2400 MHz and 10450 MHz bands. A 250kHz bandwidth linear transponder intended for conventional analogue operations and an 8 MHz bandwidth transponder for experimental digital modulation schemes and DVB amateur television.

The following frequencies have been coordinated:

for narrowband linear transponder
• downlink 10489.550 - 10489.800 MHz with 100 Watts output power
• uplink 2400.050 - 2400.300 MHz

for wideband digital transponder
• downlink 10491.000 - 10499.000 MHz with 100 Watts output power
• uplink 2401.500 - 2409.500 MHz

http://www.amsatuk.me.uk/iaru/finished_detail.php?serialnum=630
http://www.amsat-dl.org/index.php/es-hail-2-p4a

[ANS thanks AMSAT-DL for the above information]

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Launch Announced For Es'hail-2 Carrying Ham Radio Transponders

Es'hailSat has tweeted their geostationary satellite Es'hail-2 is expected to be launched by SpaceX in the 4th quarter of 2018.

Qatar's Es'hail-2 satellite will provide the first amateur radio geostationary communications and is capable of linking amateurs from Brazil to Thailand.

Es'hail-2 will carry two "Phase 4" amateur radio transponders operating in the 2400 MHz and 10450 MHz bands. A 250 kHz bandwidth linear transponder intended for conventional analogue operations and an 8 MHz bandwidth transponder for experimental digital modulation schemes and DVB amateur television.

On August 2 the company tweeted the launch information in response to a question about the launch date from Eric Ralph
https://twitter.com/eshailsat/status/1024898547165093890

On July 31, 2018 Michael Baylor @nextspaceflight tweeted:
A new #SpaceX Falcon 9 arriving at the Cape. The most likely scenario is that it is B1050.1 for the Es'hail mission. @13ericralph31 is reporting that B1046.2 will launch Merah Putih, making B1049.1 the most likely choice for Telstar 18V.
https://tinyurl.com/ANS217-Falcon9Arrival

AMSAT-DL Phase 4A Es'hail-2 geostationary satellite amateur radio transponder slides:
https://tinyurl.com/ANS217-TransponderSlides

AMSAT-DL Phase 4A leaflet:
https://tinyurl.com/ANS217-P4A-Leaflet

Es'hail-2:
https://amsat-uk.org/satellites/geosynchronous/eshail-2/

[ANS thanks AMSAT-DL via AMSAT-UK for the above information]

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BIRDS-2 deploy from ISS on 10th Aug

JAXA announced BIRDS-2 three CubeSats BHUTAN-1, MAYA-1 and UiTMSat-1 deploy from ISS at 10th August.

They will transmit 30 minutes after deployment. Initial mode looks CW on 70cm. They use same frequency 437.375MHz and transmit in the order of BHUTAN-1, MAYA-1 and UiTMSat-1.

BIRDS-2 CubeSats has also APRS digipeater on 145.825MHz.

| Satellite | Country | ID | Call Sign |
|---|---|---|---|
| BHUTAN-1 | Bhutan | BIRD-BT | JG6YKL |
| MAYA-1 | Philippines | BIRD-PH | JG6YKM |
| UiTMSat-1 | Malaysia | BIRD-MY | JG6YKN |

http://birds2.birds-project.com/operation/

[ANS thanks Masahiro JN1GKZ for the above information]

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VUCC Awards-Endorsements for July 2018

Here are the endorsements and new VUCC Satellite Awards issued by the ARRL for the period July 1, 2018 through August 1, 2018.

Congratulations to all those who made the list this month!

| CALL | 01Jul | 01Aug |
|---|---|---|
| K8YSE | 1848 | 1879 |
| WA4NVM | 1488 | 1522 |
| N9IP | 618 | 625 |
| WD9EWK | 450 | 476 |
| K7TAB | 306 | 430 |
| KE4AL | 379 | 429 |
| AA8CH | 256 | 316 |
| AE5B | 100 | 239 |
| K5IX | 175 | 202 |
| N6RFM | 107 | 201 |
| N7AGF | 152 | 175 |
| PU8RFL | 120 | 125 |
| IK0USO | 100 | 118 |
| LW2DAF | New | 103 |
| WW8W | New | 103 |
| K2MTS | New | 100 |
| KG4AKV | New | 100 |
| KJ4EU | New | 100 |

If you find errors or omissions. please contacat:
w5rkn at w5rkn dot com.

This list was developed by comparing the ARRL .pdf listings for July 1, 2018 and August 1, 2018. It's a visual comparison so omissions are possible. Apologies if your call was not mentioned. Thanks to all those who are roving to grids that are rarely on the birds. They are doing most of the work!

[ANS thanks Ron W5RKN for the above information]

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Return of ARISS Packet Radio

If you have missed APRS and packet radio from ISS (as ARISS has), you'll be happy to hear that a replacement system is on its way. When the packet module aboard ISS died in late 2017, the ARISS hardware team was heavily involved in design and safety certification of the new Interoperable Radio System (IORS). After basic troubleshooting and a few attempts to revive the failed module, we decided to dedicate our time to IORS and get it - with its packet and other capabilities - aboard ISS as soon as possible.

Early this year, thermal testing of the first flight-identical IORS power supply showed that some changes to air flow were needed. This change looked likely to delay our expected IORS deployment from late 2018 to early 2019.

With some newly available time, the hardware team was able to dig up an original duplicate of the packet module, replace its battery, and test the module to verify that it still works. Fortunately, NASA has approved flight of this identical unit with minimal paperwork, so we are asking to be on the manifest for supply mission 71P (a Progress spacecraft). Launch currently is scheduled for 31 October, with docking on 2 November. Installation will depend on the crew’s busy schedule, but we expect packet will be operational again by the end of November 2018.

[ANS thanks Dave W8AAS via AMSAT-BB for the above information]

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Students learn about Amateur Satellites at College Workshops

To popularise Ham Radio in western India two events were conducted back to back recently by Rajesh Vagadia VU2EXP Regional Coordinator AMSAT-INDIA.

LDRP College Gandhinagar

‘Ham Radio for GenX’ – Full day workshop with demo was conducted at LDRP College Gandhinagar (Gujarat – India) on 12th July 2018. More than 70 EC students + faculties participated in this awareness event.

Program was inaugurated with kind presence of dignitaries from GIAR, LDRP, IEEE, ISRO & AMSAT-INDIA.

>From GIAR, OM Pravinbhai Valera VU2CPV (Joint Secretary) & OM Jagdishbhai Pandya VU2JGI (General Secretary) blessed us with their kind presence.

Presentation on ‘Antennas for Space Application’ was conducted by Dr. Ramesh Kumar Gupta (SAC-ISRO).

Ham Radio history & Introductory session was nicely conducted by Jagdishbhai Pandya VU2JGI with several interesting examples.

Thereafter Rajesh Vagadia VU2EXP gave good overview on Satellite Communication, Digital Communication, APRS, RDF, IOTA, SSTV & RTL-SDR etc. technology.

Live demo of SSTV was conducted which was very much enjoyed by the students & faculties. VHF demo with mock drill was simulated by VU2EXP Rajesh, VU2JGI Jagdishbhai, VU3IKI Ke Ke, VU3EXP Sakshi & team.

Ham Radio stuff were exhibited incl. VHF/UHF Rigs, PSU, Antennas, Digital Interfaces, Cables, SWR Meter, attenuator, FUNcube satellite model,
QSL Cards, Awards, etc stuff was displayed for the knowledge of the students.

We also got nice support from other fellow hams incl. VU3DVA Deepakbhai, VU3GLY Priyesh, VU3DSJ Dipakbhai, SWL Abhigna etc team.

We had guest presence of Dr Narendra Chauhan Sir (IPR) & Prof. N. N. Jani Sir in the event.

I am thankful to Prof. Dave Sir (HOD – EC), Prof. Mendhe Sir (EC), Mr. Nilesh Makwana (IEEE) to nicely coordinate & support the event.

Program concluded in hope to have good number of future hams from the Institute.

LD College Ahmedabad

'Ham Radio Practical Insight' titled workshop was conducted at LD College Ahmedabad (Gujarat – India) on 13th July 2018 in afternoon session. More than 65 EC students + faculties participated.

Dignitaries from IEEE, ISRO, LD & AMSAT-INDIA inaugurated the workshop. It was our great pleasure to have chief guest presence of Shri Rajeev Jyoti Sir (Dy. Director SAC – ISRO) & Chair (IEEE) Gujarat chapter in this Ham Radio Workshop.

Rajesh Vagadia VU2EXP explained the latest technology/modes ham world uses & gave quick practical Demos for chief guest. Demo includes CW, Text, Image & Voice transmission/reception with simple VHF Radio sets. The simple experiment techniques used were described. Students were surprised to learn the potential of Amateur Radio & experts appreciate such public demos.

We got nice support from team members VU3EXP Sakshi, VU2UTZ Dinyarji, VU3PMT Mahendrabhai, VU3GLY Priyesh, SWL Ketanbhai during demo & whole event.

Thereafter detailed presentation was given on interesting ham events, digital communication, Satellite Communication, ARISS program, ASOC licencing procedure, APRS, SSTV witth RTL-SSDR etc.

Session remain very interactive with lots of queries which were answered very well by VU2EXP. Also mini Ham Radio exhibition was keenly enjoyed by the audience.

I am thankful to Prof. Usha Madam (HOD – EC), Prof. Arun Sir (EC), Mr. Nilesh Makwana (IEEE) to nicely coordinate & support the event.

Small spark of Ham Radio was ignited, hope we get good number of Hams from the participants, in the future.

[ANS thanks Rajesh VU2EXP via AMSAT-UK for the above information]

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AMSAT Board of Director Elections Corrected Ballots Mailed

Corrected ballots have been mailed and members should be receiving them, if they haven't already. The new ballots, labeled "CORRECTED BALLOT 7/20/2018" are printed on yellow-colored cardstock.

Due to a printing error, the beige-colored ballots mailed to AMSAT-NA members for the 2018 Board of Directors election on July 15, 2018 have been declared void. Any of these voided ballots received at the AMSAT-NA office will not be counted.

Using the Yellow Ballots, please vote for no more than three of the 2018 candidates:

Tom Clark, K3IO
Mark Hammond, N8MH
Scott Harvey, KA7FVV
Bruce Paige, KK5DO
Peter Portanova, W2JV

Candidate biographies can be viewed at:
https://www.amsat.org/bios2018/

The Directors positions will go to the three candidates receiving the highest number of votes. In addition, there will be two alternate members chosen, based on the next highest number of votes received.

Ballots must be received at the AMSAT office by September 15, 2018 in order to be counted. Those sent outside North America were sent via air mail. If you have not received your ballot package in a reasonable time for your location, please contact the AMSAT office. Completed ballots should be returned as promptly as possible, and those from outside North America preferably by air mail.

[ANS thanks AMSAT for the above information]

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AMSAT Member Ruth Willet, KM4LAO Receives 2018 ARRL Hiram Percy Maxim Memorial Award

Nineteen-year-old Ruth Willet, KM4LAO, of Cana, Virginia, was named as the recipient of the 2018 ARRL Hiram Percy Maxim Memorial Award by the ARRL Board of Directors at its July 20 – 21 meeting. The Hiram Percy Maxim Memorial Award is given annually by the Board to a radio amateur under the age of 21 whose accomplishments and contributions to both Amateur Radio and the local community are of an exemplary nature.

Willet, who earned her Technician class license in June 2015 and upgraded to Extra in May 2016, was instrumental in re-establishing the Amateur Radio and Electronics Club (K8HPS) at Kettering University in Michigan, where she is a junior pursuing a double major in engineering physics and mechanical engineering while maintaining an A average. She alternates 11-week academic terms with 11-week co-op jobs at Textron Specialized Vehicles in Augusta, Georgia. Willet recently relocated to Virginia from Lawrenceville, Georgia, where she grew up.

Willet is actively involved in recruiting and mentoring new licensees and in community awareness programs, including demonstrations during the August 21, 2017, total solar eclipse. She

is on the air daily on HF, using SSB or CW and satellites. In addition to her membership in ARRL, Willet belongs to AMSAT and CWOps, as well as several other clubs. She enjoys HF contesting, participating in local club events, and chasing and roving to grids on Amateur Radio satellites. Willet and her mom Sharon, KM4TVU, participated in ARRL's highly successful National Parks on the Air (NPOTA) event in 2016.

Willet has written articles for numerous amateur radio news outlets, including QST. She earned the 2017 ARRL August QST Cover plaque for her article "The 2016 Youth DX Adventure to the Caribbean Island of Saba." The article was based on her experience as a participant in the 2016 Dave Kalter Memorial Youth DX Adventure trip to Saba.

In May, Willet was presented with the Radio Club of America's Young Achiever Award. Last spring, she was the keynote speaker at the 32nd annual SWODXA DX Dinner, held in conjunction with Hamvention®, where her topic was "Experiencing the Hobby of a Lifetime." She also spoke at the 30th Hamvention Youth Forum in 2017 on "Plugging into Your Valuable Club Resources."

The Hiram Percy Maxim Memorial Award, which includes a cash award of $1,500 and an engraved plaque to the recipient, is intended to provide a tangible reward to those deserving young amateurs who contribute their time, skills, and energies daily through their commitment to Amateur Radio. As models for their peers, and inspirations to us all, these fine young people are highly visible boosters of Amateur Radio awareness.

[ANS thanks Dave N1RSN and The ARRL for the above information]

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Call for Papers Microwave Update 2018

Microwave Update 2018
Dayton, Ohio, October 11-14, 2018
Holiday Inn, Fairborn, Ohio
www.microwaveupdate.org

Microwave Update (MUD) is an international conference dedicated to microwave equipment design, construction, and operation. It is focused on, but not limited to, amateur radio on the microwave bands. The Midwest VHF/UHF Society is pleased to host this year's event. The conference will be held at the Holiday Inn, 2800 Presidential Drive, Fairborn, Ohio 45324.

Call for Presentations and Papers: The program committee is calling for papers and presentations on the technical and operational aspects of microwave amateur radio communications. Tell us about your latest project, design or operating adventures. Please e-mail your proposals, questions, and submissions to John Ackermann, N8UR, at jra(a)febo.com. Don't wait until the beginning of September to let us know what you're planning!

Presentations selected for the technical program may be given in person or by proxy. Please send an abstract and expected duration no later than August 25, 2018 so that we can determine and announce the program agenda the following week. Ideally, send your draft presentation by the same date. We encourage presenters to submit a companion paper for publication in the proceedings book. This paper would ideally be text based and expand on the presentation slides,

but a simple copy of the slides is also okay. Either way, this material must be received no later than September 1, 2018 to be included in the book. Additional material (presentation slides, schematics, source code, more text, background info, etc.) to be included on the proceedings CD must arrive no later than September 25, 2018. All conference attendees will receive a copy of the book and CD.

Full details, including suggested topics, paper guidelines, schedule, and hotel information can be found on the MUD website: www.microwaveupdate.org.

[ANS thanks Microwave Update 2018 for the above information]

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2018 36th AMSAT Symposium & Banquet Registration Now on AMSAT Store

Registrations and Banquet tickets are available on the AMSAT Store for the 2018 36th AMSAT Space Symposium and Annual General Meeting and the Banquet. The Symposium and Banquet will be held in Huntsville, Alabama on November 2-4. The venue is the US Space and Rocket Center.

Registration for the Symposium is $60 through September 30th, $65 through October 26th, and $70 at the door. Banquet tickets are $50, please provide your callsign, name and name of your guest in the notes section of the AMSAT store checkout. The Banquet will be held under the rocket in the Saturn V hall.

For more information on the Symposium as well as information and a link to the hotel. Please see: https://www.amsat.org/amsat-symposium/

[ANS thanks 2018 AMSAT Symposium Committee for the above information]

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Upcoming Satellite Operations

AMSAT lists upcoming satellite operations, which is maintained by Robert Brankston KE4AL. Please Please submit any additions or corrections to ke4al at yahoo dot com.

Following is the list of scheduled operations as of July 25, 2018:

+ Kauai, Hawaii (BL01 and BL02) – July 25 through August 2, 2018

Justin, K5EM, is heading to Kauai for a vacation. While there he will focus on linear satellites from BL01, BL02, and the BL01/BL02 gridline. Justin has posted a few tips on his Twitter page, which is publicly viewable at https://twitter.com/k5em, to help him and you increase your chances of making a contact.

+ Nova Scotia (FN65 and FN67) – August 2-5, 2018

Brent, VY2HF will be operating from FN65 August 2-3 and FN67 August 3-5. Pass announcements will be posted to Twitter, publicly viewable at https://twitter.com/vy2hf

+ Fairbanks, Alaska (BP64) – August 2-8, 2018

Bob, K8BL, will be taking a “Bucket List” Trip to Alaska next week to check off a few items, going to Fairbanks from 8/2 through 8/8 and taking his regular Rover Gear – IC820H & Arrow w/tripod. Plan is to activate BP64 and a couple nearby Grids – holiday style. That means he’ll pop up on various Satellites with no strict schedule other than a Twitter Message with a few hours notice, publicly viewable at https://twitter.com/K8BLbob.
LoTW upload upon return.

+ Miami Road Trip – August 3-5, 2018

Robert, KE4AL, has to fly down to Miami to pick up his car, then drive back home. He will operate from EL95 Friday afternoon, and then EL99/EM90 gridline Friday night. If not too saddle-sore, Robert may take the long way home, possibly as far North as North Carolina. Keep an eye on his Twitter account, publicly viewable at https://twitter.com/KE4ALabama, for further updates.

+ EO-40 – August 3-5, 2018

Paul, KE0PBR is heading to EO-40, holiday style. and expects to be on the nightly 03:00ish AO-92 passes.

+ FN05 – August 3-5, 2018

Ron, AD0DX, is heading to VE3 Land and bringing his satellite gear with him. Ron will be on FM and linears Friday and Saturday. Logging in LOTW as AD0DX/VE3. He will have one good opening for EU on AO-7 on Friday. Ron will be driving from Windsor to Toronto and back and will activate a few other grids as I have opportunity. Check out AD0DX’s QRZ page for more info.

+ Mindless Wandering – August 3-5, 2018

Chris, K7TAB is heading out again… This time, his travels will take him through DM38, DM47, DM48, DM55, DM56, DM 57, and DM58. Specific pass announcements will be posted to Twitter, publicly viewable at https://twitter.com/K7TABravo

+ North Truro, MA (FN51 + More) – August 3-8, 2018

Gary, N2WLS, is off on vacation for a week, and will be camping in North Truro, MA which is in FN42. Gary intends to try to work some FM satellite passes from FN51 as that’s the rarer strip of land. He may also put some RF up from FN41. Gary will be on the cape 8/3-8/7,. He will also be staying in FN32 on 8/2 and FN23 on 8/7 and 8/8 and may try to work some passes from those locations as well.

+ South TX (EL07, EL08) – August 5-10, 2018

Clayton, W5PFG, will be working satellite passes from EL07/EL08, Sunday afternoon, August 5th. Watch his Twitter account for pass updates, publicly viewable at https://twitter.com/w5pfg

+ Lake Placid, NY (FN24, FN34) – August 5-10, 2018

Don, KB2YSI, will be vacationing in the Lake Placid are, August 5-10. Plan is to operate FM satellites mainly, most likely operating evenings / night passes. Specific pass announcements will be posted to Twitter, publicly viewable at https://twitter.com/kb2ysi

+ Iceland (HP84, HP94, and HP95) – August 9-14, 2018
Gareth, G0MFR, will be in Iceland 9-14 August, activating grids

HP94/95/84 and looking for NA QSOs on FM Sats.

+ Bonneville Salt Flats, UT (DN30) – August 10-17, 2018

R.J., WY7AA, is heading to Speedweek at the Bonneville Salt Flats in Utah. Enroute and while there, he also plans to activate DN51, DN41, DN40, and DN20). Specific pass announcements will be posted to Twitter, publicly viewable at https://twitter.com/WY7AA

+ Vancouver Island/Olympia National Park (CO60, CO70, CN79) – August 12-13, 2018

Ron, AD0DX, will be in the Vancouver / Vancouver Island area and at Olympia National Park. He will make a special trip to CO60 on Sunday Aug 12th evening and in Campbell River, BC for 24 hours over Aug 12 and 13 so there should be lots of opportunities for CO70 and CO79. More information is available on AD0DX's QRZ page, to include planned grid activation for his return trip home. Updates will be posted on Twitter, publicly viewable at https://twitter.com/ad0dx

+ Main (FN44, FN53, and FN55) – August 12-18, 2018

Adam, K0FFY, will be visiting the State of Maine, August 12-18. Considerate enough to bring along his satellite gear, Adam expects to activate FN44, FN53, and FN 55. Updates will be posted on Twitter, publicly viewable at https://twitter.com/K0FFY_Radio

+ Road to Huntsville, Alabama (EM53, EM54, EM55, EM63, EM64, EM65) – August 16-19, 2018

Robert, KE4AL, will be heading to the Huntsville Hamfest August 16th. Enroute, he will activate EM53/EM63, EM54/EM55, and EM64/EM65 gridlines. August 17th, Robert will be operating from the U.S. Space & Rocket Center (EM64) and scouting out the venue for the 36th Annual AMSAT Space Symposium and General Meeting, which will be held November 2-4, 2018. In addition, Robert will be be providing AMSAT demonstrations at the Huntsville Hamfest (EM64), August 18-19. Specific passes will be announced on Twitter, publicly viewable at https://twitter.com/KE4ALabama

+ Santa Rosa Island (CM93 and CM94) – August 20-22, 2018

Ron, AD0DX, using the call sign W6R, will be operating from Santa Rosa Island in the Channel Islands August 20-22 to activate grid square CM93, with a few passes from the CM93/CM94 grid line. Ron will be mainly active on the FM satellites AO-91, AO-92 and SO-50. Just learning to operate on the linear birds, he hopes to be active on FO-29, CAS-4A and CAS-4B. More information is available on AD0DX's QRZ page, with updates while on the island will be posted on Twitter, publicly viewable at https://twitter.com/ad0dx

+ Lawrence, KS (EM28, EM29) – August 26-28, 2018

Greg, N4KGL, will be in activating the EM28/EM29 gridline, while in Lawrence Kansas. More specific plans are forthcoming.

[ANS thanks Robert KE4AL for the above information]

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ARISS News

Recent Successful ARISS Contacts

+ 2018-07-13 14:00 UTC between Ricky Arnold KE5DAU using ISS callsign NA1SS and Space Port Area Conference for Educators (SPACE) - Kennedy Space Center, FL (CASIS#4), participating school Burns Science & Technology Charter School, Oak Hill, FL. Contact was telebridge via W6SRJ. ARISS Mentor was Dave AA4KN.

+ 2018-07-13 21:30 UTC between Oleg Artemyev using ISS callsign RSØISS and About Gagarin From Space,Performing a session of amateur radio communication with the 7th International Aerospace School. U.N. Sultanova Rep. Bashkortostan, Ufa, Russia. Contact was direct via RZ9WWB. ARISS mentor was Sergey RV3DR.

+ 2018-07-17 08:24 UTC between Serena Aunon-Chancellor KG5TMT using ISS callsign NA1SS and Essex Heights Primary School, Melbourne, Victoria, Australia. Contact was telebridge via VK4KHZ. ARISS mentor was Shane VK4KHZ.

+ 2018-07-20 20:15 UTC between Oleg Artemyev using ISS callsign RSØISS and About Gagarin From Space, Performing a session of amateur radio communication with the 7th International Aerospace School. U.N. Sultanova Rep. Bashkortostan, Ufa, Russia. Contact was direct via RZ9WWB. ARISS mentor was Sergey RV3DR.

+ 2018-07-23 09:47 UTC between Ricky Arnold KE5DAU using ISS callsign NA1SS and Shinoda Elementary School, Izumi City, Japan. Contact was direct via 8N3SD. ARISS mentor was Satoshi 7M3TJZ.

+ 2018-07-26 20:22 UTC between Serena Aunon-Chancellor KG5TMT using ISS callsign NA1SS and ISS R&D Conference - San Francisco, CA, (CASIS#2), participating school Quest Institute for Quality Education, San Jose, CA. Contact was telebridge via VK5ZAI. ARISS mentor was Tim W6MU.

[ANS thanks Charlie AJ9N and ARISS for the above information]

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Shorts From All Over

+ The Amp Hour Podcast - Episode 401
An Interview with Brent and Bryce Salmi
https://theamphour.com/401-an-interview-with-brent-and-bryce-salmi/
Features AMSAT members the Salmi Brothers Brent, KB1LQD and Bryce, KB1LQC as they discuss lots of great tips about how to design SUPER reliable electronics and how to get into the digital side of hamradio.

[ANS thanks Amp Hour Podcast for the above information]

+ AMSAT News Service continues to look for people to join the staff of rotating editors for the AMSAT News Service bulletins. Interested person should contact ANS-Editor at amsat dot org.

[ANS thanks the dedicated ANS Rotating Editors for the above information]

+ A complete archive of past and current AMSAT News Service Bulletins can be found at:
http://amsat.org/pipermail/ans/

  In a like manner the AMSAT-BB Bulletin Board messages are archived
  at:
  http://amsat.org/pipermail/amsat-bb/

  [ANS thanks ANS Editors for the above information]

+ Readers of this list might also be interested in
  MilSat Magazine: http://www.milsatmagazine.com/archive.php
  and Sat Magazine: http://www.satmagazine.com/archive.php

  [ANS thanks SatNews for the above information.]

+ Grid Master and Got Grids Awards

  CONGRATULATIONS WI7P Randolph Kohlwey For Grid Master Award #9
  Got Grids Award #20

  For more info on our awards contact  WA4NVM

  [ANS thanks DAMON wa4hfn for the above information]

+ The Australian Communications and Media Authority (ACMA)

  ACMA Fact Sheet for Spectrum for small satellites and CubeSats

  A fact sheet "Spectrum for Small Satellites" and CubeSats has just
  been released by The Australian Communications and Media Authority
  (ACMA), Australia's government regulator of broadcasting, some
  internet content, radiocommunications and telecommunications.

  The fact sheet can be downloaded from:
  https://tinyurl.com/ANS217-ACMAFactsheet

  [ANS thanks The ACMA for the above information]

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In addition to regular membership, AMSAT offers membership in the
President's Club. Members of the President's Club, as sustaining
donors to AMSAT Project Funds, will be eligible to receive addi-
tional benefits. Application forms are available from the AMSAT
Office.

Primary and secondary school students are eligible for membership
at one-half the standard yearly rate. Post-secondary school students
enrolled in at least half time status shall be eligible for the stu-
dent rate for a maximum of 6 post-secondary years in this status.
Contact Martha at the AMSAT Office for additional student membership
information.

73,
This week's ANS Editor,
EMike McCardel, AA8EM
aa8em at amsat dot org